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Energy Efficiency and Renewable Energy Hydrogen, Fuel Cells and Infrastructure Technologies Program

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Cross-cutting Analysis

- Program benefits (oil, carbon, security)
- Managerial decision making
- Integrated view of hydrogen and end use technologies

Cross-cutting Analysis Issues

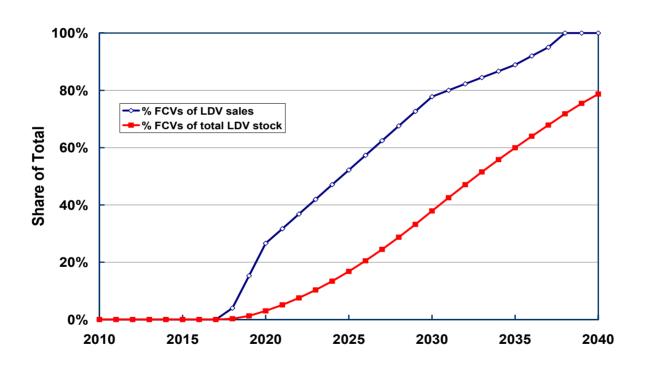
- Technology characterizations
 - Stationary fuel cells
 - Fuel cell vehicle attributes
 - Hydrogen production/delivery
- Coordination of models
- Hydrogen and fuel cell markets

Projects

- Stationary fuel cell analysis
- Feedstock and delivery analysis
- H2A
- Benefits analysis

Vision Model

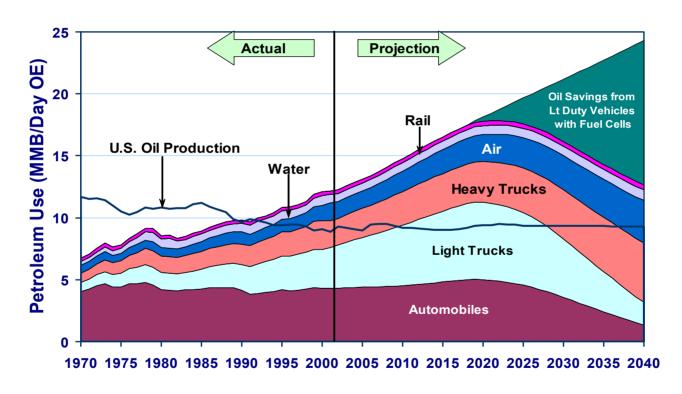
Light-duty Fuel Cell Vehicle Market Penetration Scenario



2015 Commercialization decision 2018 Aggressive market penetration begins

Vision Results

Oil Reduction Benefits of Hydrogen and Light-duty vehicles



Model suggests reduction in U.S. demand for oil by over 11 million barrels per day by 2040

Future Direction

- Synthesize analysis data into integrated planning model
- Standardize assumptions and improve technology characterizations
- Develop program benefits analysis that synchronize EIA, Markal, and program models